

ABSTRACT**Display panels, display units and data processing assemblies**

Original design manufacturers increasingly source standard components from a
5 variety of suppliers. There is a need to maintain the variety of suppliers as having only a
single supplier for a component runs the risk of a demand for that component not being met
and the risk that the technology for the component may move on while a current supplier's
technology remains unchanged. Obtaining various components from different suppliers
10 bears the problem that not all of the components are guaranteed to operate in an identical
manner. Manufacturing tolerances often result in the obtained components having different
performances. In the case of a flat panel display such as, for example, an LCD panel, these
manufacturing performance differences may manifest themselves in colour variations as
between LCD panels. This is clearly undesirable from the perspective of the original design
15 manufacturer. This problem has been addressed in the past by providing tailored firmware
for each of the display devices that takes into account the variations in the characteristics of
the display devices. This approach bears significant manufacturing and support penalties.
Suitably, embodiments of the present invention provide a display unit having associated
operational data that allows firmware to take into account the specific characteristics of a flat
panel display of that unit when rendering video data or signals.

20

(figure 1)

25